

Abstract of the Disclosure

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5 An L bit for notifying another router of whether
a self-router belongs to a connection-oriented network
is newly provided in the options field of a conventional
OSPF packet and the OSPF packet, including L bit is
transmitted to another router. In this way, each router
belonging a network can automatically recognize a
10 router belonging to a connection-oriented network by
detecting L bit. Then, by generating a routing tree,
a connection-oriented network device can be identified
in the routing tree and mapping between a
connection-oriented network and a connectionless
15 network can be performed in an edge device.